A die marked A to E is rolled 50 times. Find the probability of getting a “D” exactly 5 times.

Input Parameters :-

n(Number of total rollings) = 50

x(Number of getting "D" exactly 5 times) = 5

y(Number of not getting "D") = 50-5 = 45

P(Probability of getting "D" per rolling) = 1/5

Q(Probability of not getting "D" per rolling) = 1-1/5 = 4/5

Output :-

P(x) = nCx.P^x.Q^y

**P(x=5) = 50C5\*(1/5)^5\*(4/5)^45 = 2118760 \*** **0.00032 \* 1.40737488355328e-31 = 9.54204674648751210496e-29**